Influenza A H5N1 (chicken/Yamaguchi/7/2004) Hemagglutinin / HA (Codon Optimized) ORF mammalian expression plasmid, N-His tag



Catalog Number: VG40088-NH

General Information

Gene :	H5N1 Hemagglutir	(chicken/Yamaguchi/7/2004) nin
Official Symbol :	HA	
Synonym :	Hemaggluti	nin, HA
Source :	H5N1	
cDNA Size:	1704bp	

Description

Lot :	Please refer to the label on the tube
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Vector : pCMV3-SP-N-His

Shipping carrier :

Each tube contains approximately 10 µg of lyophilized plasmid.

Storage :

The lyophilized plasmid can be stored at ambient temperature for three months.

Quality control :

The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.

Sequencing primer list :

pCMV3-F:	5' CAGGTGTCCACTCCCAGGTCCAAG 3'
pcDNA3-R :	5' GGCAACTAGAAGGCACAGTCGAGG 3'
Or	
Forward T7 :	5' TAATACGACTCACTATAGGG 3'
ReverseBGH :	5' TAGAAGGCACAGTCGAGG 3'

pCMV3-F and pcDNA3-R are designed by Sino Biological Inc. Customers can order the primer pair from any oligonucleotide supplier.

Plasmid Resuspension protocol

- 1. Centrifuge at $5,000 \times g$ for 5 min.
- 2. Carefully open the tube and add 100 μ l of sterile water to dissolve the DNA.
- Close the tube and incubate for 10 minutes at room temperature.
- 4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than $5000 \times g$.
- 5. Store the plasmid at -20 $^\circ\!\mathrm{C}.$

The plasmid is ready for:

- Restriction enzyme digestion
- PCR amplification
- E. coli transformation
- DNA sequencing

E.coli strains for transformation (recommended but not limited)

Most commercially available competent cells are appropriate for the plasmid, e.g. TOP10, DH5 α and TOP10F' .

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Vector Information

All of the pCMV vectors are designed for high-level stable and transient expression in mammalian hosts. High-level stable and non-replicative transient expression can be carried out in most mammalian cells. The vectors contain the following elements:

•Human enhanced cytomegalovirus immediate-early (CMV) promoter for high-level expression in a wide range of mammalian cells.

• Hygromycin resistance gene for selection of mammalian cell lines.

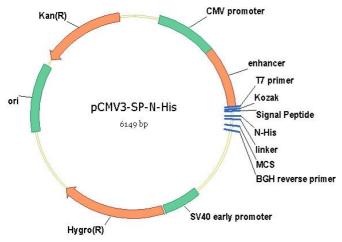
• A Kozak consensus sequence to enhance mammalian expression.

Vector Name	pCMV3-SP-N-His
Vector Size	6149bp
Vector Type	Mammalian Expression Vector
Expression Method	Constiutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Kanamycin
Selection In Mammalian Cells	Hygromycin
Protein Tag	His

pCMV3-SP-N-His (suitable for secretary and membane protein expession)



Physical Map



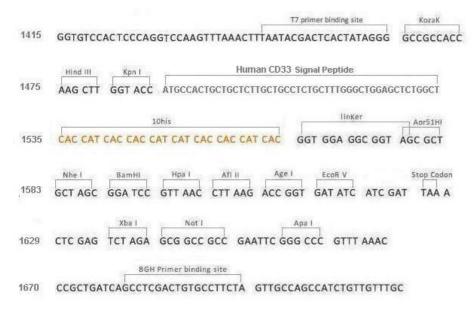
Comments for pCMV3-SP-N-His:

CMV promoter: bases 250-837 enhancer: bases 838-1445 SV40 early promoter: bases 2390-2759 Hygromycin ORF: bases 2777-3802 pUC origin: bases 4445-5118 Kanamycin ORF: bases 5192-6007

Description

Vector Name	pCMV3-SP-N-His
Vector Size	6149bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Kanamycin
Selection In Mammalian Cells	Hygromycin
Protein Tag	His
Sequencing Primer	Forward:T7(TAATACGACTCACTATAGGG) Reverse:BGH(TAGAAGGCACAGTCGAGG)

Schematic of pCMV3-SP-N-His Multiple Cloning Sites



pCMV3-SP-N-His is recommended for constructing the N-His tag secretary and membrane proteins expression vector which containing a naïve signal peptide. An universal signal peptide is used to instead the naïve signal peptide.

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